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**Appendix A- Pending Claims**

13. (Amended) A hybridization chamber comprising:
  - a) a base plate wherein a base cavity for holding a first array component is formed in said base plate;
  - b) a lid comprising at least one component port for immobilizing a second array component;
  - c) a sealant between said base plate and said lid forming an airtight seal.
14. The chamber according to claim 13, wherein said second array component is a fiber optic bundle.
15. The chamber according to claim 13 further comprising at least one alignment feature, wherein said at least one alignment feature facilitates alignment of said lid with said base plate.
16. The chamber according to claim 13 further comprising at least one alignment feature, wherein said at least one alignment feature is a male and female fitting.
17. The chamber according to claim 13, wherein said first array component is a microtiter plate.
18. The chamber according to claim 13, wherein said chamber is connected to at least one fluid handling device.
29. (Amended) A hybridization chamber comprising:
  - a) a base plate comprising a base cavity;
  - b) a first array component in said base cavity;
  - b) a lid comprising at least a first component port, wherein said component port comprises a second array component;
  - c) a sealant between said base plate and said lid forming an airtight seal.
30. The chamber according to claim 29, wherein said first array component is a microtiter plate.

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31. (Twice Amended) The chamber according to claim 29, wherein said second array component is a fiber optic bundle.
32. The chamber according to claim 29 further comprising at least one alignment feature wherein, said at least one alignment feature facilitates alignment of said lid with said base plate.
33. (Amended) The chamber according to claim 32, wherein said at least one alignment feature is a male and female fitting.
34. The chamber according to claim 29, wherein said chamber is connected to at least one fluid handling device.